

Renyu (Philip) Zhang

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CONTACT INFORMATION	New York University Shanghai 1555 Century Avenue Pudong, Shanghai, China, 200122	renyu.zhang@nyu.edu https://rphilipzhang.github.io/rphilipzhang/
EDUCATION	Washington University in St. Louis, Olin Business School Ph.D. Operations Management • Thesis: Dynamic Pricing and Inventory Management: Theory and Applications • Advisors: Nan Yang, Fuqiang Zhang	St. Louis, MO 05/2016
	Peking University, School of Mathematical Sciences B.S. Mathematics	Beijing, China 07/2011
ACADEMIC POSITION	New York University Shanghai Assistant Professor of Operations Management NYU Global Network Assistant Professor	Shanghai, China 09/2016- 07/2017-
	New York University, Stern School of Business Visiting Assistant Professor of Operations Management	New York, NY 06/2017-
NON-ACADEMIC POSITION	Kwai Economist & Tech Lead	Beijing, China 12/2018-
RESEARCH INTERESTS	Methodologies Reinforcement learning; optimization; randomized experiment; matching; game theory; mechanism design; econometrics and causal inference. Applications Online platforms and marketplaces; sharing economy; social networks; recommender systems; advertising; revenue management and pricing; inventory and supply chain management.	
PUBLICATIONS	<ol style="list-style-type: none">1. Dynamic Pricing and Inventory Management under Inventory-Dependent Demand, <i>Operations Research</i>, 62(5), 2014, 1077-1094 (with Nan Yang).2. Dynamic Pricing and Inventory Management under Fluctuating Procurement Costs, <i>Manufacturing & Service Operations Management</i>, 17(3), 2015, 321-334 (with Guang Xiao and Nan Yang).3. Dynamic Supply Risk Management with Signal-Based Forecast Multi-Sourcing, and Discretionary Selling, <i>Production and Operations Management</i>, 26(7), 2017, 1399-1415 (with Long Gao, Nan Yang, and Ting Luo).4. Trade-in Remanufacturing, Customer Purchasing Behavior, and Government Policy, <i>Manufacturing & Service Operations Management</i>, 20(4), 2018, 601-616 (with Fuqiang Zhang). - Finalist award in the <i>POMS College of Supply Chain Management 2015 Best Student Paper Competition</i>	

PAPERS UNDER
REVIEW

5. **Competition and Coopetition for Two-sided Platforms** (with Maxime Cohen).
- Honorable Mention in the *INFORMS Service Science Best Cluster Paper Award*
6. **Data Aggregation and Demand Prediction** (with Maxime Cohen and Kevin Jiao).
- Finalist in the *INFORMS Data Mining Section Best Paper Award*
7. **Cold Start on Online Advertising Platforms: Data-Driven Algorithms and Field Experiments** (with Zikun Ye, Dennis Zhang, Heng Zhang, Xin Chen, and Zhiwei Xu).
8. **Social Nudges Boost Productivity on Online Platforms: Evidence from Field Experiments** (with Zhiyu Zeng, Hengchen Dai, Dennis Zhang, Max Shen, Zhiwei Xu, and Heng Zhang).
9. **Personalized Sales Targets with Customer Choices** (with Xiaolong Li, Ying Rong, and Huan Zheng).
10. **Dynamic Pricing and Inventory Management in the Presence of Online Reviews** (with Nan Yang).
11. **Dynamic Competition under Market Size Dynamics: Balancing the Exploitation-Induction Tradeoff** (with Nan Yang).
12. **Competition on Inventory Availability and Price** (with Junfei Lei, Yugang Yu, and Fuqiang Zhang).
13. **Comparative Statics Analysis of Inventory Management Models with Dynamic Pricing** (with Nan Yang).

WORKS IN
PROGRESS

14. **Carpool Services for Ride-sharing Platforms** (with Xuan Wang).
15. **Recommender Systems on Platforms** (with Xuan Wang and Dennis J. Zhang).

INVITED SEMINARS

Chinese University of Hong Kong Shenzhen, School of Data Science	11/2020
Sun Yat-sen University, Lingnan College	10/2020
National University of Singapore, Institute of Operations Research and Analytics	10/2020
Shanghai Jiaotong University, Antai College of Economics and Management	09/2020
New York University, Stern School of Business	09/2020
Club Bear Online Seminar, Video link	07/2020
University of Illinois at Chicago, College of Business Administration	10/2019
Peking University, Guanghua School of Management	12/2018
Sun Yat-sen University, Lingnan College	12/2018
John Hopkins University, Carey Business School	11/2018
New York University, Stern School of Business	11/2018
Chinese University of Hong Kong, CUHK Business School	01/2018
Sichuan University, School of Business	12/2017
Washington University in St. Louis, Olin Business School	10/2017
Hong Kong Polytechnique University, Faculty of Business	08/2017
City University of Hong Kong, College of Business	08/2017
Hong Kong University of Science and Technology, HKUST Business School	08/2017
New York University, Stern School of Business	06/2017
Singapore Management University, Lee Kong Chian School of Business	04/2017
National University of Singapore, NUS Business School	04/2017
University of Science and Technology of China, School of Management	03/2017
Southeast University, School of Economics and Management	12/2016
Tsinghua University, School of Economics and Management	12/2016

Shanghai Jiaotong University, Antai School of Economics and Management	12/2016
University of Toronto, Rotman School of Management	11/2016
Nanjing University, School of Management and Engineering	09/2016
Southwest University of Finance and Economics, School of Business Administration	07/2016
Southwest Jiaotong University, School of Economics and Management	07/2016
Shanghai University of Finance and Economics, School of Business Administration	02/2016
New York University Shanghai	02/2016
University of Texas at Dallas, Jindal School of Management	01/2016
New York University, Stern School of Business	01/2016
Chinese University of Hong Kong, SEEM Department	01/2016
Hong Kong University of Science and Technology, HKUST Business School	01/2016
Hong Kong University of Science and Technology, IELM Department	01/2016
Hong Kong Polytechnique University, Faculty of Business	01/2016
City University of Hong Kong, College of Business	01/2016

CONFERENCE TALKS	INFORMS Annual Meeting 2020	11/2020
	National Science Foundation of China, PI Meeting	10/2020
	INFORMS Annual Meeting 2019	10/2019
	Data-Driven and Innovative Operations Workshop,	06/2019
	POMS-HK Conference 2019	01/2019
	Young Scholars' Forum on Management Science 2019	01/2019
	INFORMS Annual Meeting 2018	11/2018
	Operations Management under "Internet+" Environment	08/2018
	MSOM Conference 2018	07/2018
	Revenue Management and Pricing Annual Conference 2018	06/2018
	Revenue Management Workshop	05/2018
	POMS Conference 2018	05/2018
	POMS-HK Conference 2018	01/2018
	Young Scholars' Forum on Management Science 2017	12/2017
	INFORMS Annual Meeting 2017	10/2017
	MSOM Conference 2017	06/2017
	POMS-HK Conference 2017	01/2017
	INFORMS Annual Meeting 2016	11/2016
	CSAMSE Annual Conference 2016	07/2016
	Revenue Management and Pricing Annual Conference 2016	06/2016
	POMS Annual Meeting 2016	05/2016
	Decision Science Institute Annual Conference 2015	11/2015
	INFORMS Annual Meeting 2015	11/2015
	MSOM Annual Conference 2015	06/2015
	POMS Annual Meeting 2015	05/2015
	INFORMS Annual Meeting 2014	11/2014
	MSOM Annual Conference 2014	06/2014
	INFORMS Annual Meeting 2013	10/2013
	INFORMS Annual Meeting 2012	10/2012

HONORS, AWARDS,
AND GRANTS

1. Finalist, *INFORMS Data Mining Section Best Paper Award*. 10/2019
2. MSOM Meritorious Service Award 2018, 2019 04/2020
3. Shanghai Eastern Scholar, Young Scientist Program QD2018053, PI, RMB 200,000/Year.01/2019-12/2021
4. National Science Foundation of China, Young Scientist Program 71802133, PI, RMB 180,000. 01/2019-12/2021
5. Honorable Mention, *INFORMS Service Science Best Cluster Paper Award*. 10/2017
6. Shanghai Pujiang Talent Program 17PJC074, PI, RMB 100,000. 09/2017-08/2019
7. Finalist Award, *POMS College of Supply Chain Management Best Student Paper Competition*. 05/2015
8. First Prize Award, Chinese Mathematics Olympiad 10/2006

TEACHING EXPERIENCES

New York University Shanghai

Instructor

- Business Analytics Spring 2021
- Machine Learning for Business (Rating: 4.8/5) Fall 2020
- Business Analytics (Rating: 4.2/5, 4.8/5) Spring 2019
- Operations Management (Rating: 4.6/5) Spring 2019
- Business Analytics (Rating: 4.4/5, 4.7/5) Spring 2018
- Competitive Advantage from Operations (Rating: 3.8/5) Fall 2017
- Competitive Advantage from Operations (Rating: 4/5) Spring 2017
- Competitive Advantage from Operations (Rating: 4.6/5) Fall 2016

Business Honors Thesis Advisor

- Ziheng Wang (2020), Yiyi Zhang (2018), Yujia Ni (2018).

Kwai

Internal Instructor

- Data Driven Optimization 05/2020
- Operations Analytics 01-05/2019

Washington University in St. Louis, Olin Business School

Teaching Assistant

- Operations Management; Advanced Operations Strategy; Market Competition and Value Appropriation ; Operations Planning and Control.

PROFESSIONAL SERVICES

Journal Referee

Management Science, Operations Research, Manufacturing & Service Operations Management, Marketing Science, Production and Operations Management, Transportation Research: Part B, Naval Research Logistics, European Journal of Operations Research, Omega, Journal of Management Science and Engineering, Applied Mathematical Modeling, Operational Research: An International Journal.

Competition Judge

MSOM Student Paper Competition (2020, 2019, 2018, 2017).

POM College of Supply Chain Management Student Paper Competition (2020).

Conference Committee and Session Chair

Session Chair:

- INFORMS 2020, INFORMS 2018, POMS 2018, POMS-HK Conference 2018, POMS-HK Conference 2017, CSAMSE Conference 2016.

Sponsorships and Exhibits Committee member:

- POMS Annual Meeting 2016.

Professional Organization Membership

INFORMS, MSOM, RMP, APS, POMS.

Internal Services

NYU Shanghai Candidate Weekend instructor.	03/2018
NYU Shanghai Business Honors program thesis advisor.	09/2017-
NYU Shanghai Operations Management Reading Group co-organizer.	03/2017-
NYU Shanghai Housing Subcommittee member.	11/2016-05/2019
NYU Shanghai Business Research Seminar coordinator.	09/2016-08/2017
NYU Shanghai Business Honors Program guest lecturer.	10/2016-
Olin Business School Operations Management PhD Seminar coordinator.	01/2013-12/2013

CONSULTING
EXPERIENCES

Cardinal Operations

Parttime Scientist	09/2017-08/2018
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Boeing Center for Supply Chain Innovation, Washington University in St. Louis

Parttime consultant.	10/2013-06/2015
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PERSONAL

Chinese citizen, Christian, married with one child.